
THE HAY BALER

Graduation Edition

FACULTY OF AGRICULTURE

UNIVERSITY OF MANITOBA

Vol. 3

April, 1948

No. 6

To the High School Students and Club Members

This is the last number of "The Hay Baler" which will be published for the University year of 1947-48. You will, however, be receiving further issues as the staff which will be working on this publication next year have made plans to continue to send you a copy of each paper.

We have forwarded our little magazine to you in order that you might become more acquainted with another phase of life, and we trust that it has been of use in this extent and that you will forgive our "short-comings". As we had anticipated, there have been inquiries regarding courses in University, particularly in Agriculture. We regret that for lack of space we cannot publish the information required, and our regret is deeper because we believe that you, as young people, want to know what we as young people think of the courses given here. Our only advice is that you contact some of the chaps whose names and addresses are listed in this edition, and we know they will be glad to give you the information you require.

We invite you to read in this issue the article entitled Junior Club Work in Manitoba. This was prepared upon our request, by Mr. W. S. Frazer of the Extension Service, Department of Agriculture, Legislative Building, Winnipeg. Mr. Frazer has invited enquiries, and since we know Mr. Frazer personally and have found him to be very sincere, we can only say that if you are interested in Club activities you may feel free to write to him at any time.

We take this opportunity of wishing you every success in your High School and Club work.

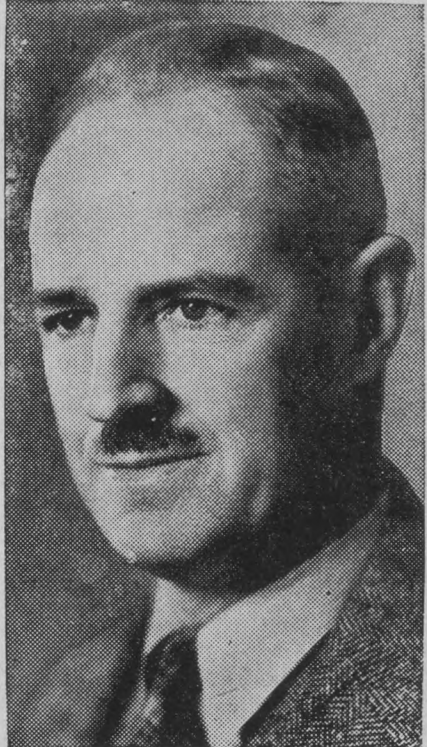
THE 1947-48 HAY BALER STAFF.

FAREWELL GRADS

FROM THE DEAN

We say farewell grads, but all the while hope that graduation is not a clean and abrupt break with the University, with your fellows of University years, or with studies. The University has a right to expect your continued loyalty and so have those who have been fellow students.

And that you would cease to be students in the broad sense is now unthinkable. As Agricultural graduates you are indeed expected to have a grasp of the practical problems in the noble profession which is agriculture, but your course work at the University was intended to do more than provide a vocational training; it was intended as a cultivation of mind. Let's keep our sights high; we are Aggies and proud of that, but we are more; we are citizens of Canada and, as such, are faced with the responsibility of helping fellows to a better life.



It is important that you and I understand the practical problems growing out of soil, crops, insects, livestock, machinery and so on, but even more important that the University graduates possess such qualities as an enquiring alertness, a sense of generosity in appraising the points of view of other people, a kindly interest in the welfare of our fellows, an intellectual honesty. These qualities we can cultivate and should, and without them there cannot be full value for the attempt to get an education.

For the class of '48 I have no fears. The Faculty is proud of the record made and the good spirit which has prevailed. At the time of writing, nearly every man who is a candidate for graduation this spring has had a chance of a position. Some will farm; some will do research, some extension work and some will go into industry. In any case, our grads are wanted. Wherever you go, forget not that you are Aggies and that Agriculture is basic; it is broad; it can be liberal and cultural. Good luck!

GRANT MAC EWAN.

THE HAY BALER

... The Official Organ of ...
THE STUDENT BODY
OF THE FACULTY OF AGRICULTURE
UNIVERSITY OF MANITOBA

Prepared and presented by the Students in their desire to raise the profession of Agriculture to the status of an applicable science and a living art.

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Retrospect

By K. R. JAMES

With the completion of the final examination this term, comes for many of us the completion of formal studies leading to the Degree of Bachelor of Science in Agriculture. Some of us had our studies at this institution interrupted by activities of a more demanding nature in the service of our country, others have taken advantage of the opportunity made available through their service, while the remainder of our graduating class are those which we who are older like to call "youngsters." We have spent four years together in classes, socially, and many of us in Residence. New friendships have been made, old ones have been solidified, and we trust we all will be in what we often respectfully term as "that March Past." It is not of the latter that we like to dwell on in our thought but the former, that of friendship. Those of us who were in the Services have known and come to expect fellowship, but the type we knew in the service cannot surpass that found in University.

Perhaps what we have noticed most in the last three years, is the ever-present attitude of co-operation and assistance found in our class. The so-called "youngsters" who always lead the remainder in examination results have shown such a tolerance and sympathy toward the older ones that we cannot but feel emotional about it. More credit is their due as this is in many cases their first meeting with society at large! Regardless of age, creed or experience the class of 1948 has been characterized by whole-hearted co-operation and fellowship throughout. Many examples come to mind, and one has only to think of the number of times someone has helped

him over some tricky aspect of genetics, chemistry, soils, etc., in order to have as one chap expressed it, "his faith in mankind renewed."

It is true that we have made many friends in the student body, but we have also made friends with our faculty members. We realize that it is difficult for the Professors to get to know personally the members of each class as it comes along, and we marvel at the degree in which they have achieved it with our class. Many of us have delayed or denied ourselves the privilege of becoming well acquainted with the teaching staff, while others feel that the University Professors we have met can be counted as friends, which we feel is a fitting tribute. This is as it should be.

Fellowship and co-operation is not restricted to the graduating class. In the preparation of this paper, the staff of "The Hay Baler" has leaned heavily on the student body as a whole. It is true that some have contributed more time and energy than others, but we on the staff feel that at least one of them is being recompensed for his labors and we hope others will in the future. It would not be fair to single out individuals and as the list is so large we feel we cannot publish it. We can say, however, that there has never been a time during this past year, that a request for help with this publication went unanswered, and it is largely due to the efforts of the unlisted helpers that "The Hay Baler" has achieved in 1947-48, the success that has been attributed to it.

Our years here have been filled with long hours in lectures and laboratories, and in preparation of our study material. We have had disappointments; we have had to give up pleasures; and we have had to worry and work hard, but we will forget all these. We will never forget the spirit of fellowship, of co-operation and of kindness which has filled our University years.

CAMPUS IMPRESSIONS

Athletes—Active, large-hearted boys, rough in play, work and love.

Professors—Inactive, small-hearted men, gentle in play, lost to love, dumb or bright, mostly clever, and all—narrow.

Co-eds—Fair and unfair, sexless creatures with enormous sense potentialities, either inhibited or exhibited.

Classes—Mental confinement periods.

Freshmen—Longing, hopeful, ambitious, determined ones.

Sophs—Longing, hopeful, ambitious ones.

Juniors—Longing, hopeful ones.

Seniors—Longing (to get out) ones.

—Ubysey.

Irrigation Pays

By G. DOUGLAS NOTON

In Southwestern Manitoba, there is a large area of brown-black transition soils. These soils are of natural high fertility, but as this area is subject to periodic drought, the yields of crops and garden produce are erratic and sometimes very low.

In an effort to conserve water, the Prairie Farm Rehabilitation Water-Development Branch (since its inception in 1935) has been active in small water development work, including the excavation of dugouts, construction of stock-watering dams and small irrigation projects.

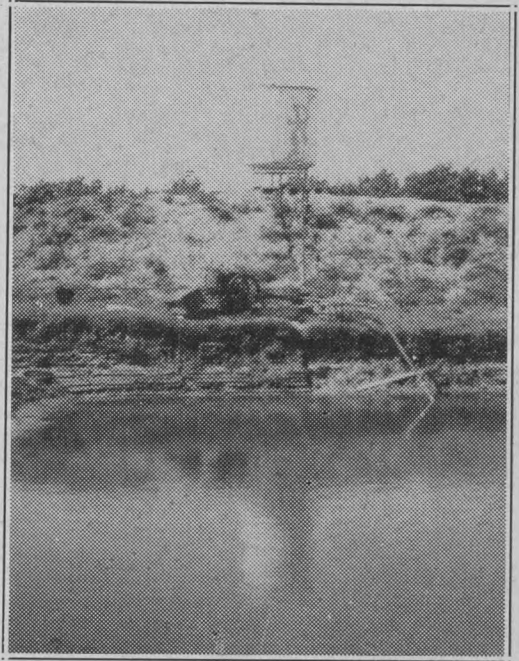
During the past few years, the writer has had the opportunity of operating an irrigation system on a farm near Boissevain. The results have been very encouraging, and show without a doubt that some method of irrigation for garden purposes is profitable in Southwestern Manitoba. The type of irrigating installation and the method of irrigation differs according to the topography of the land and the distances the dugouts are situated from the gardens.

The type installed on our farm consisted of a 900-gallon tank, together with a 2 H.P. gasoline engine and rotary pump, and with the necessary piping to convey the water to the gardens. The tank had an opening at the bottom which served both as an inlet and outlet for the water. The pump was so arranged that when it was operating, it could pump water to the gardens or to the tank or to both at the same time. The tank was mounted at such a height on the bank that water also could flow by gravity to the gardens when the pump was not operating. Taps were installed at regular distances on the pipeline in the garden, and from these, a hose could be attached to sprinkle or to flood any portion of the garden. Where the land had a steady slope the water was directed in furrows between the rows. Small

dams of earth were made at regular intervals across the furrows, to facilitate even distribution of the water.

The marked increase of garden produce on our irrigated garden over that grown on surrounding farms proved that an irrigating system is a sound investment in the brown-black soils area.

The more general use of run-off water for the irrigation of gardens would contribute greatly to the stabilization of agriculture and the improvement of living conditions on many Manitoba farms.



View of dugout irrigation equipment described in this article

THAT CO-ED

She learned to love,
 She learned to hate,
 She learned a car
 Would carry eight.
 She learned to coax,
 She learned to tease.
 She learned a new way
 Of cooking cheese,
 She learned to neck,
 And break a date.
 She's ready now
 To graduate.

* * *

Experience is said to be the best teacher.
 Considering what it costs, it should be.

Dear Dad: Gue\$\$ what I need mo\$t of all? That\$ right. \$end it along. Be\$t wi\$he\$.

Your \$on,
 \$am.

Dear \$am: NOthing much ever happens here. We kNOW you like your school. Write us aNOther letter aNOw. NOW we have to say goodbye.

Dad.

Junior Club Work in Manitoba

By W. S. FRAZER

It should be recorded that the late Dr. Black, while President of the Manitoba Agricultural College, conceived the idea of organizing Boys' and Girls' Clubs with the objective of improving conditions on the farm and in the home. The first such club was organized at Roland in 1912, and was the first club of its kind to be organized in Western Canada exclusively for rural farm youth. Its organization coincided closely with the birth of the 4-H Club movement in the United States.

Events have proven that Dr. Black was right in his belief that the way to reach the farm people was through their children and the movement has spread to every province in the Dominion. There are today nearly 50,000 club members in Canada with approximately 450 clubs and 6,000 club members in Manitoba.

While the first clubs were concerned largely with the practical phases of work on the farm and in the home such as the planting of gardens, raising of calves and chickens, sewing and cooking, etc., the emphasis today is placed on the development of the young people themselves. Training in citizenship is an important part of all Junior club work.

All Junior Club work in Manitoba is under the direction of the Extension Service of the Manitoba Department of Agriculture and is organized on a project basis with clubs organized to fit the interests of almost any group of young people in the Province.

Club Work aims to:

- (1) Interest young people in farm and home life.
- (2) Provide practical education in agriculture and Home Economics.
- (3) Encourage the adoption of improved practices on the farm and in the home.
- (4) Train young people for future citizenship through experience gained in

public speaking and in conducting meetings.

In order to organize a club there must be a group of at least eight or more boys and girls between the ages of 10 and 20 anxious to carry on one of the various club projects. The club must have an adult leader in charge and hold at least six meetings during the year and carry out a year's programme ending with an Achievement Day or Club Fair.

The following types of clubs can be organized in Manitoba—Beef and Dairy Calf, Swine, Poultry, Grain, Garden, Clothing and Foods. Detailed information in regard to their organization may be obtained from the Extension Service or from the local Agricultural Representative.

Special activities are planned for the summer months, including judging and Public Speaking competitions, Club Camps and Trips, with Club Rallies providing an opportunity for bringing together all club members on a district basis for friendly competition, sports and sociability.

The Club year concludes by sending representatives to take part in the National Club Contests held each year in Toronto in conjunction with the Royal Winter Fair. These contests are held by the Canadian Council on Boys' and Girls' Club Work—the co-ordinating body for club work in Canada. Last year Manitoba sent five teams of two members each and they were successful in winning Dominion honors in the Poultry, Grain and Clothing projects, and in addition, won three individual aggregates in the same contests.

The Club leader is the most important cog in our Junior Club programme and Club leadership presents an opportunity for service by diploma graduates after they have returned to their home community and an offer of help would be appreciated by your local Agricultural Representatives. Your reward will come in watching the development of the young people in your community.

An Idea!

The primary producer delights to produce in abundance. Good Yields, Good Quality, Good Prices, are his target.

The farmer has organized to insure that abundance is a blessing rather than a curse.

He has advocated changes in our nation's economy to prevent himself from being exploited in years of bountiful harvest and to assure the consumer that he in turn, will not be exploited in years of shorter crops.

On such an idea will International Unity be built.

MANITOBA POOL ELEVATORS

Sports Roundup

By "RITCHIE"

Well the Dip boys have pulled out and the remaining unfortunates are burning the candle at both ends in a desperate, last minute bid for salvation. With our athletic wardrobes packed away with the mothballs for another summer, we can truthfully say we have just experienced a most successful campaign which has bestowed honor and glory upon our faculty through more departments than one.

Our faculty curlers took an extra game to sideline Science in their division. They continued their winning ways to take two games of their three-game series with Accountancy. Thus they took possession of the McKenzie-Clay trophy which is posted up annually for inter-faculty competition. Our curling foursome in the Porte Markle playoffs lost out to Engineering in their first encounter. However this was no disgrace for their masters went on to win the honors. Howden, Humbert, Cassels, and Uhryniuk were our ambassadors.

"Dangerous Dan" Jenkins of Klondike fame led his bowling mates over the length of a successful season and made a fine showing in the playoffs. After all the firing had ceased and the smoke had cleared away Science was the only faculty who had topped them. Jenkins also proved himself very adept by winning the curling crown in the faculty competition. The burly ice strategist, Ted Poyser, was the only man to humble Murray over the course.

One band of athletes who came in for little publicity during the current season was the junior hockey team. However with a couple of reinforcements they invaded the village of Sperling and trounced the local hockey talent to the tune of 13 to 2. Some of the boys who played heads-up hockey for this gallant aggregation over the season were: Arbuckle, Young, McMillan, Cuddy, Mowat, Bill and Lloyd Little, Karlowski, Caskey, Parsonage, Franzmann and the three Bells, Murray, Jim and Laurie. These boys didn't take any trophies but their fine sporting play and gentleman-like behaviour is worthy of honorable mention. This corner would also like to take this opportunity to apologize to Don Blaine for overlooking his contribution to the junior basketball team. Also roses go to Ken Wyatt (alias Joe Gay) for coming out of many years of retirement to help the senior hockey cause.

Sporting activities were pretty well rounded up with a return trip to the warm little town of Teulon for a hockey engagement. Our short-handed staff won from their short-handed staff by a 4 to 2 count. We had a big edge in play but failed to capitalize on this on many occasions. Sammy Langford and Perry Hurton were on lend lease from the Science faculty for

our Dips were busy with exams. Langford turned in a flawless 60-minute chore on the blue line. His running mate was a rugged little ball of fire in the person of Laurie Dahl who delighted in the rough going and handed out a fair share of stiff checks. The defence duo were ably assisted by brother Johnny Dahl who checked in with a creditable performance of puck blocking when called upon to do same. Up front we sent two smart forward units against the foe. One consisted of the dynamite trio of Sandercock, Mohr and George DePape. The other formidable line was made up of Paterson, Gregory and Hurton. The goals were collected by Sandercock, Paterson, Mohr and Langford. "Masta Tom" Paterson dropped back to the blue line occasionally to give Laurie Dahl a much needed breather. The throngs then migrated to the local hall and danced to the melodic strains of the Residence orchestra.

A vote of thanks should be extended to all conveners and reps for it was through their unselfish and tireless efforts that we enjoyed such a successful year. This just about writes "30" to the sporting activities for 1947-48, but our athletes will be back next year (we hope) bigger and stronger than ever. Over and Out.



ALVIN RICHARDSON, Our Sports Writer

JUST SLIGHTLY FERTILIZED?

His teacher sent a note home with Johnny asking his mother to give him a bath. The next day Johnny brought an answer:

"Dear Miss Smith, when I send Johnny to school I send him to be learnt, and not to be smelt; he ain't no rose."



DIPLOMA GRADUATING CLASS AND TEACHING STAFF, 1947 - 1948

Diploma Graduates

L. A. Allison.....	Roland, Man.	J. L. Hughes.....	St. Vital, Man.
C. D. Ames.....	Elgin, Man.	B. T. Jacklin.....	Meadows, Man.
W. J. Arnott.....	Roblin, Man	B. Johnson.....	Glenboro, Man.
C. H. Bee.....	Neepawa, Man.	K. R. Johnson.....	Sanford, Man.
F. W. Belcher.....	Bield, Man.	V. F. R. Kenward.....	Dawson Creek, B.C.
J. E. Bell.....	Clearwater, Man.	R. L. Kolke.....	Portage la Prairie, Man.
J. M. Bell.....	Isabella, Man.	J. A. Laughland.....	Underhill, Man.
L. D. Bell.....	Basswood, Man.	J. M. MacKay.....	Hilton, Man.
H. S. Billaney.....	Birtle, Man.	C. E. Magne.....	Notre Dame de Lourdes
J. H. Borley.....	Fannystelle, Man.	W. R. S. McDonald.....	Brookdale, Man.
P. Borysowich.....	Garson, Man.	W. F. McFarland.....	Carroll, Man.
R. C. Brooks.....	Decker, Man.	A. R. McMillan.....	Margaret, Man.
A. Brown.....	Dufrost, Man.	J. C. McNab.....	Minnedosa, Man.
D. S. Brown.....	Oakner, Man.	H. M. Meadows.....	Minnedosa, Man.
C. Caldwell.....	Reston, Man.	M. Murray.....	Solsgirth, Man.
D. A. Cameron.....	Roblin, Man.	J. J. Nechwediuk.....	Sandy Lake, Man.
W. J. Caskey.....	Macdonald, Man.	E. R. Parsonage.....	Greenway, Man.
J. A. Chester.....	Ninga, Man.	E. J. Perras.....	St. Francois-Xavier, Man.
D. F. Cory.....	Nesbitt, Man.	J. E. Pool.....	Sidney, Man.
A. K. Cuddy.....	Sanford, Man.	R. D. Rabe.....	Alexander, Man.
C. Delichte.....	St. Alphonse, Man.	W. A. Rabe.....	Alexander, Man.
J. G. De Pape.....	Bruxelles, Man.	L. L. Rance.....	Sperling, Man.
D. B. Dickson.....	Boissevain, Man.	S. M. Raymond.....	Homewood, Man.
R. L. Einarson.....	Glenboro, Man.	R. J. Robinson.....	Norgate, Man.
R. H. Faurschou.....	Portage la Prairie, Man.	E. L. Ryan.....	Foxwarren, Man.
F. T. Ferguson.....	Elm Grove, Man.	D. A. Shearer.....	MacNutt, Sask.
J. K. Fleming.....	Minto, Man.	L. R. Sierens.....	Swan Lake, Man.
G. E. Fotheringham.....	Brandon, Man.	I. Sigvaldason.....	Arborg, Man.
H. C. Franzmann.....	Fannystelle, Man.	L. Simon.....	Notre Dame de Lourdes
D. J. Froebe.....	Homewood, Man.	H. E. Stambuski.....	Thornhill, Man.
C. G. Graham.....	Newdale, Man.	E. G. Sterling.....	Tilston, Man.
V. E. Graham.....	Newdale, Man.	E. E. Sterling.....	Tilston, Man.
B. W. Grant.....	Minnedosa, Man.	R. R. Thorpe.....	Balmoral, Man.
R. D. F. Heise.....	Isabella, Man.	D. R. Tolton.....	Otterburne, Man.
A. Henderson.....	St. Vital, Man.	J. F. Uhrin.....	Pine Creek, Man.
H. Hiebert.....	Rosenfeld, Man.	H. M. Warbanski.....	Dufrost, Man.
C. Hollander.....	Portage la Prairie, Man.	D. N. Wilson.....	Rapid City, Man.
A. V. Holm.....	Arborg, Man.	R. A. Wilson.....	Langruth, Man.

The Flax Research Program

By FRED J. NORTH

More and more land is being sown to flax each year and farmers are watching reports from the Research Laboratories for the latest developments. It is needless to say that they do not watch in vain.

In Canada, research in the field of flax diseases is being carried on at the Dominion Laboratory of Plant Pathology, Winnipeg, by two people. Mr. W. E. Sackston spends all of his time on diseases other than rust, while Mr. B. Peturson works part-time on flax rust. Besides these, we have Professor Vanterpool of the University of Saskatchewan, and Dr. R. O. Lachance at Ste. Anne de la Pocatiere, Quebec, both of whom spend part time on flax diseases. The breeding program is carried on by Dr. W. G. McGregor at Ottawa, and by Professor J. B. Harrington, of the University of Saskatchewan.

We might well ask, "What have these men contributed toward the production of better oil producing seeds and more disease resistant varieties?" To answer, we need only review the new varieties which have been produced and compare their relative merits.

Redwing and Bison were early bids for disease resistance and were placed on the market in the Canadian west in the early 1930's. These varieties were developed in the U.S.A. and showed good resistance to wilt and moderate resistance to the rust races prevalent at that time. In 1938 Royal, a selection from Crown, was distributed by the University of Saskatchewan. Royal showed resistance to wilt and rust. New races of rust had developed by this time and Bison was in danger of being eliminated, hence, Royal became our leading flax variety through the war years. During the war years the Central Experimental Farm at Ottawa developed the variety, Rocket, which showed very good resistance to rust and only moderate susceptibility to wilt. This variety was put out in 1947 and has yet to stand proving under large acreages over a period of years. 1948 will see the distribution of the latest variety of flax to be introduced into Canada from the U.S.A. This is the variety, Dakota, which shows high resistance to wilt and immunity to rust.

Redwing is rust susceptible but is still grown in many areas because of its earliness.

And so the work progresses. We have progressed from disease susceptible flax to varieties that have minimized the effects of wilt and rust. The work, however, is far from completed, as both the rust fungus and the wilt fungus naturally produce new races every year, and continued vigilance is the only way by which we can be sure that our varieties continue to be resistant.

Another disease problem that has worried flax researchers in Canada is pasmo, which has been spreading throughout Manitoba since 1942, and into Saskatchewan since 1946. Pasm attacks all the flax varieties that have been tested but research workers hope to find resistant flax types that can be used in the breeding program. Some of the newer varieties, like Dakota, are better than Viking and Victory, which should not be grown anywhere that pasmo might develop.

Breeding for resistance to such flax diseases as wilt, rust, pasmo, anthracnose and seedling blight is well under way but there is much work still to be done. Canada's present guarantee of \$5.00 per bushel for flax is ample proof of the demand for more flax and a few more men are urgently needed to continue this line of research.

A flax research staff should be a part of the Department of Agriculture as long as flax is a major crop in Canada. It is hoped that some University students will prepare themselves for this field of research in order that Canada may continue to donate her share to the world store of fundamental knowledge which is so necessary in the carrying on of applied research and plant breeding.

Agriculture is Canada's number one industry, and every Canadian who in any way associates himself with this industry must interest himself in helping to bring into reality the Agricultural Research workers ultimate goal, which is the removal, as far as is possible, of all risks from the Agricultural industry.

Extension Debating

By J. MARTIN, M.J. ROY and D. A. BATHO

Saturday, March 13, found Jack Forbes, Bob Chapman and Dorcas-Anne Batho catching an early bus for Dauphin. Jack started things off well by being able to find the necessary tickets after an extensive search through his pockets.

The Dauphin debaters, Ray Hunt and Elgin Engen, after winning the debate confessed that they had expected the University students to be "six-footers." The judges, including a lawyer, a farmer and a school inspector, agreed that "The Canada-U.K. wheat agreement is detrimental to the Canadian farmer."

The group was given a cordial welcome by the Dauphin people. Meals and billets were provided. During the afternoon Mr. Denham, principal of D.T.C.I., conducted a tour of the recently remodeled school. The bright spacious library, the well-equipped woodworking shop and the modern Home Economics room were well worth seeing. D.T.C.I. is providing its students with courses in handicrafts, woodworking, Home Economics and commercial work as well as the usual academic subjects.

Jack did not take his "Baggie-Aggie Five" with him but the school orchestra provided some musical entertainment. After this lunch was served by the teachers. J. Baird, student president, presided over the evening.

All concerned found the trip both profitable and enjoyable. Such trips spread the good will of the faculty and provide valuable experience for the participants. We hope that next year will see more Aggies debating in the country.

Awards Banquet

By JIM TEASE

The annual "Awards Banquet" of the faculty was held in the Blue Room of the Marlborough Hotel, March 8th. After all had partaken of scrumptious victuals, chairman George DePape put the small crowd in a gay mood with his opening remarks.

Agriculture's friend, Wray Youmans, presented ABC awards to John Howden, Keith Gauer, Lloyd Humbert, Vern Parker, Walter Van Wynsberghe, John McPhail, Bill Langdon, Vic Poleschuk and George DePape. Faculty sweaters went to Bill Uhryniuk, George DePape and Ron Cassels with letters to Lorne Parker, Bert Sandercock, Laurie Dahl, Ross McMillan and Herbie Franzmann. These presentations were made by Dean MacEwan.

Professors Hodgson, Jamieson, Sinclair, J. M. Brown and Olson dispensed the vari-

The Farmer

If you can do the job of any toiler,
Carpenter, mason, plumber, engineer,
If you can drill a well and mend a boiler
And practice fifty other trades a year;
If you can run machines and doctor cattle,
Keep setting hens on duty at nests;
If you can fight an unrelenting battle
With endless armies of invading pests;
If you can face the hazards of the weather,
Gambling with Nature with your all at stake,
And when the luck's against you altogether,
Fight on, and never let your courage break;
If you can hold your patience when your coping
With drought or flood, with blight and smut and scale,
And lose, and start again and keep on hoping
In spite of all the harvests that may fail;
If you can share the burdens of your neighbors
Gladly, but leave their own affairs their own;
If, notwithstanding all your endless labors
Your spirit keeps its warmly human tone;
If you can see your every task as thrilling
Because, though sometimes wearily you plod,
You know each stubborn acre you are tilling
Is new wealth you've created from the sod;
If you can feel a joy at turning over
The good brown earth in furrows cleanly run;
If you love scent of oats and wheat and clover
And yellow corn that ripens in the sun;
If you don't rob the soil, yet go on getting
From every acre all that it is worth
You are a FARMER, son—and I am betting
You wouldn't trade with anyone on earth.

—Berton Braley in Saturday Evening Post.

ous faculty crests to the respective convenors.

The highlight of the evening was reached when guest speaker Frank Kennedy talked on the important part Agriculture should play in the mental, moral and physical leadership of the community.



DEGREE GRADUATING CLASS, 1948

Degree Graduates—1948

Arnott, David Reid L.....	475 Warsaw Ave., Winnipeg, Man.
Austman, Helgi Halldor.....	Virdir, Man.
Cameron, John Ross.....	155 Lenore St., Winnipeg, Man.
De Pape, George J.....	Swan Lake, Man.
Edie, Arnold Edward.....	Dugald, Man.
Ford, Percy Henry.....	1, Winston Apts., Grosvenor Ave., Wpg.
Fraser, George Robertson.....	Ste. B, Astoria Apts., Winnipeg
Fyfe, Gordon.....	71 Riverton Ave., Winnipeg, Man.
Giesbrecht, John.....	Box 41, R.R. No. 2, Winkler, Man.
Godkin, Alexander Robert.....	Morden, Man.
Grieve, Clarence Melross.....	Shoal Lake, Man.
James, Kenneth Russell.....	Goodlands, Man.
King, Douglas Malcolm.....	486 Basswood Place, Winnipeg, Man.
Langdon, William S.....	Langruth, Man.
Lougheed, Arthur William.....	64 Middlegate, Winnipeg, Man.
Lapka, Wasyl.....	Russell, Man.
Lundman, Lennart Carl.....	Hilltop, Man.
Maddock, Edward Watson.....	259 Forest Ave., W. Kildonan, Man.
Mantell, Alvin Barry.....	293 Inkster Blvd., Winnipeg, Man.
McKillop, John Edward.....	33 Cobourg Ave., Winnipeg, Man.
Menzies, John Adam.....	373 Broadway, Ste. 14, Winnipeg, Man.
Parker, Lorne Edmund.....	127 Montrose St., Winnipeg, Man.
Poyser, Edward Arnold.....	Austin, Man.
Pratt, Lee Edward.....	226 Enfield Crescent, Winnipeg, Man.
Romanow, Walter.....	633 Church Avenue, Winnipeg, Man.
Savage, Kenneth Greenway.....	Ste. D, Layton Apts., Winnipeg, Man.
Shannon, William Leslie.....	17 Mall Plaza Apts., Winnipeg, Man.
Siemens, Leonard Bernard.....	Horndean, Man.
Sisler, James Martin.....	39 Silvia St., Winnipeg, Man.
Skaptason, Johann Skapti.....	944 Riverwood Ave., Winnipeg, Man.
Stephen, William P.....	729 Cathedral Ave., Winnipeg, Man.
Thomas Ross M.....	Hartney, Man.
Tobias, Cyril Herbert.....	Morden, Man.
Willigan, Donald Alexander.....	533 Magnus Ave., Winnipeg, Man.

Does Agricultural Research Pay?

By WALTER (WALLY) VEAL

No line of work is more essential to agriculture than agricultural research. Back of every advancement lies months and, in many cases, years of scientific research. This fact is seldom disputed, yet often forgotten. People greet warmly the development of newer and better methods of farming, and the introduction of plant varieties which are more disease resistant. Few perhaps realize the fundamental research that must be carried out day by day to make possible these developments.

One need only remember the loss suffered due to rust damage before resistant varieties were introduced, to realize the value of agricultural research. In 1945, the growing of rust resistant wheat in Manitoba and Eastern Saskatchewan gave the farmers an increased income of 41 million dollars. This was due to increased yields alone, and did not take into account increased income due to better grades obtained. The increased income in this field alone is more than the money spent on all agricultural research each year in Canada. Research in other agricultural fields, although not as important as rust research, also aids the farmer and increases his income through increased production.

Agricultural research in this country in the past has been handicapped by two factors: (1) lack of sufficient funds and (2) lack of scientific research workers. Most of the money spent on agricultural research comes from the Dominion Department of Agriculture. This is parcelled out to the various research laboratories and universities across the country. Larger grants are needed if agricultural research is to continue and expand its work.

Industry has been the chief cause of a lack of research workers in agriculture. To those who place money first, the salaries paid by industry are most attractive. They

are, in general, higher than those paid to workers in agricultural research. What many overlook is the lack of stability which accompanies many jobs in industry. Workers in agricultural research, if competent, are assured of steady employment and, in old age, a pension to give them security. If more people can be made to realize the value of research work and the need for more trained men perhaps in research this drawback may be partly eliminated.

The need for research in agriculture is becoming greater as other crops become important. Thus, the growing of flax and sugar beets on a large scale in Manitoba may present problems which will require research. Research work is also necessary in other lines, such as diseases of forage crops, alfalfa, and vegetables, mainly field peas. That a shortage of research workers to carry out an enlarged research program exists is true not only in Canada, but also in the U.S.A. and England. A survey of scientific manpower in England showed 55,000 in all lines of research at present, 70,000 needed by 1950 and 90,000 by 1955. At the present rate of training, the supply by 1950 will be approximately 60,000 or away below the number required. The figures for Canada and the U.S.A. show a very similar trend.

So, fellow Aggies, opportunity is knocking. It is to be hoped that many will answer, and take the opportunity of helping this essential phase of agriculture. Let us not forget that as well as an opportunity here we also have a duty. May each of us consider it our duty to aid agricultural research by our interest in the work being carried on and, better still, by taking an active part in this work. Agricultural research definitely does pay, both for the farmer, who benefits by it, and for the research worker, who devotes his life to this very essential work.

PRODUCTION AND MARKETING

Production and marketing are the two pillars that support farm prosperity. The Searle Grain Company twice a month issues a periodical entitled "Grain Market Features" which sets out the pertinent facts and figures of international grain marketing, and discusses in each issue important marketing problems as they appear upon the scene. This periodical will be sent free to any University student who is interested and who will make an application by letter to the

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DAIRY SCHOOL GRADUATES, 1948

Top row, from left to right: A. Wagner, R. Torgeson, R. Norsworthy, R. Laboissiere, M. Sutton, R. Luning, K. Crumley, M. Dyck.
Second row: C. Boyer, V. Dougens, D. Martin, J. Bjore, Mr. Boyle, C. Cornish, A. Hall.
First row: Prof. J. Janzen, Mr. H. McRae, Dean MacEwan, Prof. R. W. Brown, D. Arnott, K. Savage.

The Student Veterans Council

By BILL LEATHERS

As most of you Vets know, attempts have been made at various times during the past three years to organize a Student Veterans' Council on this Campus. The object of such a committee was to investigate any problems of particular interest to the Student Veteran (such as that of the adequacy of the monthly allowances), and to attempt to bring forth helpful suggestions to aid in solving any such difficulties encountered. At long last this aim has been achieved, and your committee has been formed.

The newly-formed council, a sub-committee of the U.M.S.U., is composed of three members appointed by the U.M.S.U. Council, and four others; one each selected by the veterans in the following sections of the University: (1) United College and the Affiliated Colleges; (2) Medicine and Law; (3) Arts and Commerce, and (4) Engineering, Science and Agriculture. The chairman of the committee is Graeme Haig (Law II), selected from the three U.M.S.U. representatives.

Agriculture is well represented on this committee. First, there is John Staples (Engineering III), the official representative from the section to which Agriculture has been assigned; and, second, there is Jim Knight, Aggie Junior U.M.S.U. Rep, who has been appointed from the U.M.S.U. Council. It might also be noted at this time that yours truly ("Doc" Leathers) received the appointment, from the Aggie Student Council, to speak for this Faculty in the selection of the section representative, and to act as contact link between the Veterans' Committee and the Student Veterans in Agriculture.

Still the chief item before the Committee is that of the monthly allowances for Student Veterans. However, it is felt that there may be other problems confronting some Student Vets, or groups of Vets, to which the Committee might be able to assist in finding some solution. If you know of such a problem, or have some suggestion that you feel would be of use, get in touch with "Doc," and the Student Veterans' Committee will hear about it.

A. I. C. Meetings

By DOUGLAS A. DUNCAN

The Agricultural Institute of Canada is composed of graduates and has held three meetings at Fort Garry since the beginning of the second term this year. These meetings were organized by Mr. G. Muirhead and committee, for the purpose of acquainting students of the graduating class and third year with present employment opportunities. Outstanding speakers in the fields of scientific research, industry, commerce and administration brought the students up to date on the latest trends of agriculture in our Canadian economy.

The primary purposes of the A.I.C. is to promote the interests of science in agriculture and to improve the industry generally in order that it might enjoy the same standards as other primary industries.

The students in the senior years would like to express their sincerest thanks to the A.I.C. committee whose efforts were instrumental in organizing these very worthwhile evenings for our benefit. We hope that we may have an opportunity of meeting with various members of the A.I.C. again next fall and winter.

A bewildered old lady stood at a busy intersection and each time the traffic policeman beckoned her and others forward she started to cross, only to halt and stumble back on to the sidewalk when he roared, "Pedestrians only." This went on for about ten minutes. Finally she could contain herself no longer. "Listen, young man," she demanded, "when do we Anglicans get a chance?"

Father (to young son): "When Abe Lincoln was your age, he was making his own living."

Son: "Yes, and when he was your age, he was president."—Carnegie Tech.

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Vice Stick.....	George Fraser.....	Jack Forbes
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Junior U.M.S.U. Rep.....	Jack Forbes.....	Jim Knight
Athletic President.....	George De Pape.....	Dave Hill
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Junior Manitoba Rep.....	E. V. Titheridge.....	Dorcas-Anne Batho
Secretary	Percy Ford.....	Morley Douglas

When the Green Gits Back in the Trees

In spring, when the green gits back in the trees,

And the sun comes out and stays,
And yer boots pull on with a good tight squeeze,

And you think of yer bare-foot days;
When you ort to work, and you want to not,
And you and yer wife agrees:

It's time to spade up the garden lot,
When the green gits back in the trees.

Well! work is the least o' my ideas
When the green, you know, gits back in the trees!

When the green gits back in the trees, and bees

Is a-buzzin' aroun' ag'in
In that kind of a lazy go-as-you-please
Old gait they hum roun' in;

When the groun's all bare, where the hay-rick stood,

And the crick's riz, and the breeze
Coaxes the bloom in the old dogwood,

And the green gits back in the trees—
I like, as I say, in sich scenes as these,
The time when the green gits back in the trees.

When the whole tail-feathers o' Wintertime
Is all pulled out and gone!

And the sap it thaws and begins to climb,
And the swet it starts out on

A feller's forred, a-getting down
At the old spring on his knees—

I kindo' like jest a-loafin' roun'
When the green gits back in the trees—

Jest a-potterin' roun' as I-durn-piease
When the green, you know, gits back in the trees.

—James Whitcomb Riley.

Grads' Farewell

By ROY KENWARD

In the "Royal Alex" on March 12, the Faculties of Agriculture and Home Economics held their Graduation Banquet and Ball, popularly known as the "Grad's Farewell," as it is the last gathering which the graduating classes of these faculties attend. Les Shannon and his helpers are to be commended for the fine evening which they prepared for us. Although dress was optional, there were many in formal attire, lending a feeling of grandeur to the occasion.

It was regrettable that President Truman was unable to attend, but Dean MacEwan came in from "the Highways and Byways," and in his inimitable style presented the greetings from the University. Lorne Parker, Agriculture Senior Stick 1947-48, as chairman, gave a zest to the proceedings as he introduced the speakers and distributed awards. The Valedictory address was delivered by George Fraser, with "Hare today and goon tomorrow" as a theme. We compliment all those who took part in the program, their speeches were excellent and enjoyed.

Morale is something like vitamins. You can't see it. You can't touch it. You can't taste it. Yet, if you haven' got it, you're sunk.—Jan Struther, British author.

Small boy: I'll be a good boy when I go to the hospital, and take my medicine, and I won't cry.

Mother: That's just fine, dear.

Boy: But I won't let them palm a baby off on me, like they did to you. I want a pup.

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